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Retroperitoneal Hematoma and Renal Cortical Injury: A Rare Complication of Cerebral Angiography - A Case Report -

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Cerebral angiography is an invasive technique and can induce various complications, such as neurologic complications. We describe two cases of retroperitoneal hematoma and renal injury, a rare complication of cerebral angiography. A 65-year-old male and 56-year-old male underwent cerebral angiography for stem cell implantation at a general hospital. The diagnoses of retroperitoneal hematoma and renal injury were delayed. On abdominal-pelvic CT, renal injury was demonstrated with a pseudoaneurysm and a retroperitoneal hematoma in the perirenal space. Interventional angiography was performed. Renal angiography showed that the contrast was extravasated with a pseudoaneurysm in the lower pole of right kidney. The feeding artery of the pseudoaneurysm was successfully embolized. Emergency physicians must consider a retroperitoneal hematoma and renal cortical injury after angiography, especially when patients present with hypotension and abdominal distention.

Key Words: Hematoma, Complications, Cerebral angiography

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¹⁾.

10 (catheter),
(wire),

²⁾.

2

1.

65 가 5

4

4

5

3

,

75/55 mmHg,

159 , 36.1 , 18

가 .

31,570/μL (87.5%),
8.5 g/dL, 207,000/μL ,

115/55 mmHg,
111 , 36.9 , 16 .

(Morrison's pouch)

1.1 cm 가
(inferior pole)
가
(Fig. 1).

3 가
가 가
(Fig. 2).

21 .
2.
56 가 6 ,
10

36,890/μL (90.7%),
11.8 g/dL, 189,000/μL ,

(inferior pole)
(Fig. 3).

가
5 가 가
(Fig. 4).

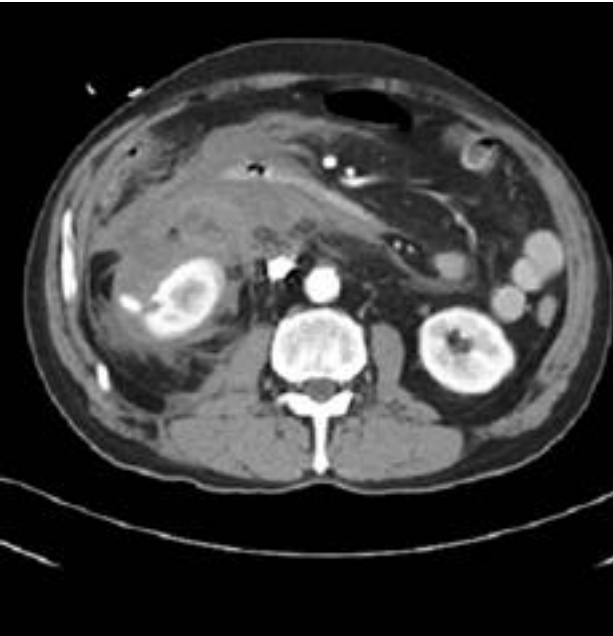


Fig. 1. Abdominal-pelvic CT of case 1 demonstrates pseudoaneurysmal formation and retroperitoneal hematoma formation in anterior and posterior pararenal space.



Fig. 2. Renal angiography of case 1 shows that the contrast is extravasated with pseudoaneurysm in lower pole of right kidney.

19

0.4% ~ 2.6%
2-5)

가

(pseudoaneurysm),
5)

0.12%
6,7)

(Cullen's
sign) - (Grey-Turner's sign)

가 (psoas muscle)

(iliopsoas sign)가⁸⁾

6.5 ~ 22.8%
5%⁹⁾

(renal artery percutaneous translumi-
nal angioplasty)

10,11)

6

24
가, 6

17

가¹²⁾

가

가

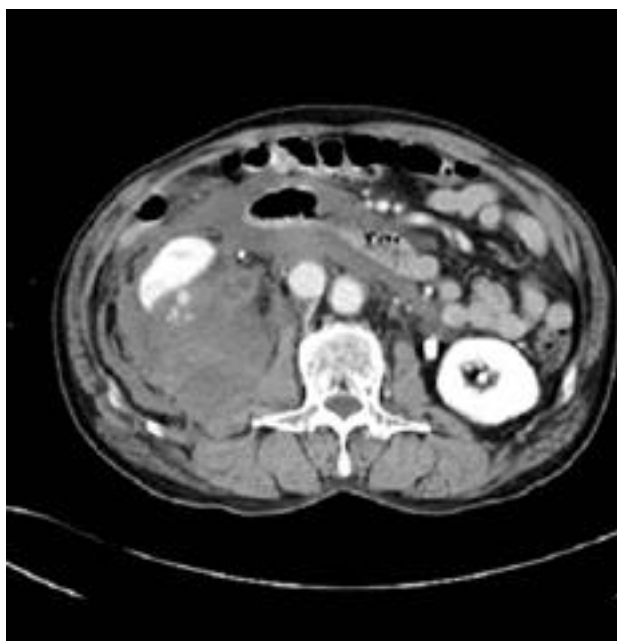


Fig. 3. Abdominal-pelvic CT of case 2 demonstrates pseudoaneurysmal formation and retroperitoneal hematoma formation in anterior and posterior pararenal space.



Fig. 4. Renal angiography of case 2 shows that the contrast is extravasated with pseudoaneurysm in lower pole of right kidney.

(blunt renal trauma)

I, II

III

(subcapular)

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가

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